

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/538,066  
Source: PGT/10  
Date Processed by STIC: 6/16/05

***ENTERED***



PCT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/538,066

DATE: 06/16/2005

TIME: 10:17:14

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\06162005\J538066.raw

3 <110> APPLICANT: Epimmune Inc.  
 5 <120> TITLE OF INVENTION: HLA-A1, -A2, -A3, -A24, -B7, and -B44 Tumor Associated  
 Antigen  
 6 Peptides and Compositions  
 8 <130> FILE REFERENCE: 2060.015PC06  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/538,066  
 C--> 11 <141> CURRENT FILING DATE: 2005-06-09  
 13 <150> PRIOR APPLICATION NUMBER: US 60/432,017  
 14 <151> PRIOR FILING DATE: 2002-12-10  
 16 <160> NUMBER OF SEQ ID NOS: 767  
 18 <170> SOFTWARE: PatentIn version 3.2  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 10  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: Homo sapiens  
 25 <400> SEQUENCE: 1  
 27 Val Leu Tyr Gly Pro Asp Ala Pro Thr Val  
 28 1 5 10  
 31 <210> SEQ ID NO: 2  
 32 <211> LENGTH: 9  
 33 <212> TYPE: PRT  
 34 <213> ORGANISM: Homo sapiens  
 36 <400> SEQUENCE: 2  
 38 Tyr Leu Ser Gly Ala Asn Leu Asn Val  
 39 1 5  
 42 <210> SEQ ID NO: 3  
 43 <211> LENGTH: 9  
 44 <212> TYPE: PRT  
 45 <213> ORGANISM: Homo sapiens  
 47 <400> SEQUENCE: 3  
 49 Ala Thr Val Gly Ile Met Ile Gly Val  
 50 1 5  
 53 <210> SEQ ID NO: 4  
 54 <211> LENGTH: 11  
 55 <212> TYPE: PRT  
 56 <213> ORGANISM: Homo sapiens  
 58 <400> SEQUENCE: 4  
 60 Leu Leu Pro Glu Asn Asn Val Leu Ser Pro Val  
 61 1 5 10  
 64 <210> SEQ ID NO: 5  
 65 <211> LENGTH: 9  
 66 <212> TYPE: PRT  
 67 <213> ORGANISM: Homo sapiens  
 69 <400> SEQUENCE: 5

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Input Set : A:\Sequence Listing.txt  
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71 Lys Leu Cys Pro Val Gln Leu Trp Val  
72 1 5  
75 <210> SEQ ID NO: 6  
76 <211> LENGTH: 9  
77 <212> TYPE: PRT  
78 <213> ORGANISM: Homo sapiens  
80 <220> FEATURE:  
81 <221> NAME/KEY: misc\_feature  
82 <222> LOCATION: (3)..(3)  
83 <223> OTHER INFORMATION: Xaa = alpha-amino butyric acid  
85 <400> SEQUENCE: 6  
W--> 87 Lys Leu Xaa Pro Val Gln Leu Trp Val  
88 1 5  
91 <210> SEQ ID NO: 7  
92 <211> LENGTH: 9  
93 <212> TYPE: PRT  
94 <213> ORGANISM: Homo sapiens  
96 <400> SEQUENCE: 7  
98 Ser Leu Pro Pro Pro Gly Thr Arg Val  
99 1 5  
102 <210> SEQ ID NO: 8  
103 <211> LENGTH: 9  
104 <212> TYPE: PRT  
105 <213> ORGANISM: Homo sapiens  
107 <400> SEQUENCE: 8  
109 Ser Met Pro Pro Pro Gly Thr Arg Val  
110 1 5  
113 <210> SEQ ID NO: 9  
114 <211> LENGTH: 9  
115 <212> TYPE: PRT  
116 <213> ORGANISM: Homo sapiens  
118 <400> SEQUENCE: 9  
120 Lys Leu Phe Gly Ser Leu Ala Phe Val  
121 1 5  
124 <210> SEQ ID NO: 10  
125 <211> LENGTH: 9  
126 <212> TYPE: PRT  
127 <213> ORGANISM: Homo sapiens  
129 <400> SEQUENCE: 10  
131 Lys Val Phe Gly Ser Leu Ala Phe Val  
132 1 5  
135 <210> SEQ ID NO: 11  
136 <211> LENGTH: 10  
137 <212> TYPE: PRT  
138 <213> ORGANISM: Homo sapiens  
140 <400> SEQUENCE: 11  
142 Val Met Ala Gly Val Gly Ser Pro Tyr Val  
143 1 5 10  
146 <210> SEQ ID NO: 12

## RAW SEQUENCE LISTING

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Input Set : A:\Sequence Listing.txt  
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147 <211> LENGTH: 9  
148 <212> TYPE: PRT  
149 <213> ORGANISM: Homo sapiens  
151 <400> SEQUENCE: 12  
153 Ala Leu Cys Arg Trp Gly Leu Leu Leu  
154 1 5  
157 <210> SEQ ID NO: 13  
158 <211> LENGTH: 9  
159 <212> TYPE: PRT  
160 <213> ORGANISM: Homo sapiens  
162 <400> SEQUENCE: 13  
164 Phe Leu Trp Gly Pro Arg Ala Leu Val  
165 1 5  
168 <210> SEQ ID NO: 14  
169 <211> LENGTH: 9  
170 <212> TYPE: PRT  
171 <213> ORGANISM: Homo sapiens  
173 <400> SEQUENCE: 14  
175 His Leu Tyr Gln Gly Cys Gln Val Val  
176 1 5  
179 <210> SEQ ID NO: 15  
180 <211> LENGTH: 9  
181 <212> TYPE: PRT  
182 <213> ORGANISM: Homo sapiens  
184 <400> SEQUENCE: 15  
186 Ile Leu His Asn Gly Ala Tyr Ser Leu  
187 1 5  
190 <210> SEQ ID NO: 16  
191 <211> LENGTH: 9  
192 <212> TYPE: PRT  
193 <213> ORGANISM: Homo sapiens  
195 <400> SEQUENCE: 16  
197 Ile Met Ile Gly Val Leu Val Gly Val  
198 1 5  
201 <210> SEQ ID NO: 17  
202 <211> LENGTH: 9  
203 <212> TYPE: PRT  
204 <213> ORGANISM: Homo sapiens  
206 <400> SEQUENCE: 17  
208 Lys Ile Phe Gly Ser Leu Ala Phe Leu  
209 1 5  
212 <210> SEQ ID NO: 18  
213 <211> LENGTH: 9  
214 <212> TYPE: PRT  
215 <213> ORGANISM: Homo sapiens  
217 <400> SEQUENCE: 18  
219 Lys Val Ala Glu Leu Val His Phe Leu  
220 1 5  
223 <210> SEQ ID NO: 19

## RAW SEQUENCE LISTING

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Input Set : A:\Sequence Listing.txt

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224 <211> LENGTH: 9  
225 <212> TYPE: PRT  
226 <213> ORGANISM: Homo sapiens  
228 <400> SEQUENCE: 19  
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231 1 5  
234 <210> SEQ ID NO: 20  
235 <211> LENGTH: 10  
236 <212> TYPE: PRT  
237 <213> ORGANISM: Homo sapiens  
239 <400> SEQUENCE: 20  
241 Leu Val Phe Gly Ile Glu Leu Met Glu Val  
242 1 5 10  
245 <210> SEQ ID NO: 21  
246 <211> LENGTH: 11  
247 <212> TYPE: PRT  
248 <213> ORGANISM: Homo sapiens  
250 <400> SEQUENCE: 21  
252 Gln Leu Val Phe Gly Ile Glu Leu Met Glu Val  
253 1 5 10  
256 <210> SEQ ID NO: 22  
257 <211> LENGTH: 9  
258 <212> TYPE: PRT  
259 <213> ORGANISM: Homo sapiens  
261 <400> SEQUENCE: 22  
263 Arg Leu Leu Gln Glu Thr Glu Leu Val  
264 1 5  
267 <210> SEQ ID NO: 23  
268 <211> LENGTH: 9  
269 <212> TYPE: PRT  
270 <213> ORGANISM: Homo sapiens  
272 <400> SEQUENCE: 23  
274 Val Val Leu Gly Val Val Phe Gly Ile  
275 1 5  
278 <210> SEQ ID NO: 24  
279 <211> LENGTH: 10  
280 <212> TYPE: PRT  
281 <213> ORGANISM: Homo sapiens  
283 <400> SEQUENCE: 24  
285 Tyr Leu Gln Leu Val Phe Gly Ile Glu Val  
286 1 5 10  
289 <210> SEQ ID NO: 25  
290 <211> LENGTH: 10  
291 <212> TYPE: PRT  
292 <213> ORGANISM: Homo sapiens  
294 <400> SEQUENCE: 25  
296 Tyr Met Ile Met Val Lys Cys Trp Met Ile  
297 1 5 10  
300 <210> SEQ ID NO: 26

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Input Set : A:\Sequence Listing.txt  
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301 <211> LENGTH: 14  
302 <212> TYPE: PRT  
303 <213> ORGANISM: Clostridium tetani  
305 <400> SEQUENCE: 26  
307 Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu  
308 1 5 10  
311 <210> SEQ ID NO: 27  
312 <211> LENGTH: 21  
313 <212> TYPE: PRT  
314 <213> ORGANISM: Plasmodium falciparum  
316 <400> SEQUENCE: 27  
318 Asp Ile Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe  
319 1 5 10 15  
322 Asn Val Val Asn Ser  
323 20  
326 <210> SEQ ID NO: 28  
327 <211> LENGTH: 16  
328 <212> TYPE: PRT  
329 <213> ORGANISM: Streptococcus sp.  
331 <400> SEQUENCE: 28  
333 Gly Ala Val Asp Ser Ile Leu Gly Gly Val Ala Thr Tyr Gly Ala Ala  
334 1 5 10 15  
337 <210> SEQ ID NO: 29  
338 <211> LENGTH: 13  
339 <212> TYPE: PRT  
340 <213> ORGANISM: Unknown  
342 <220> FEATURE:  
343 <223> OTHER INFORMATION: PADRE peptide  
346 <220> FEATURE:  
347 <221> NAME/KEY: misc\_feature  
348 <222> LOCATION: (1)..(1)  
349 <223> OTHER INFORMATION: May be L- or D-Alanine  
351 <220> FEATURE:  
352 <221> NAME/KEY: misc\_feature  
353 <222> LOCATION: (3)..(3)  
354 <223> OTHER INFORMATION: Xaa may be Cyclohexylalanine, Phe or Tyr  
356 <220> FEATURE:  
357 <221> NAME/KEY: misc\_feature  
358 <222> LOCATION: (7)..(7)  
359 <223> OTHER INFORMATION: Xaa may be Trp, Tyr, His or Asn  
361 <220> FEATURE:  
362 <221> NAME/KEY: misc\_feature  
363 <222> LOCATION: (13)..(13)  
364 <223> OTHER INFORMATION: May be L- or D-Alanine  
366 <220> FEATURE:  
367 <221> NAME/KEY: misc\_feature  
368 <222> LOCATION: (13)..(13)  
369 <223> OTHER INFORMATION: May be amidated  
371 <400> SEQUENCE: 29

RAW SEQUENCE LISTING ERROR SUMMARY                   DATE: 06/16/2005  
PATENT APPLICATION: US/10/538,066                   TIME: 10:17:15

Input Set : A:\Sequence Listing.txt  
Output Set: N:\CRF4\06162005\J538066.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; Xaa Pos / 3 /  
Seq#:29; Xaa Pos. 1,1  
Seq#:30; Xaa Pos. 3  
Seq#:34; Xaa Pos. 3  
Seq#:37; Xaa Pos. 3  
Seq#:40; Xaa Pos. 3  
Seq#:108; Xaa Pos. 1  
Seq#:109; Xaa Pos. 1  
Seq#:116; Xaa Pos. 5  
Seq#:118; Xaa Pos. 3  
Seq#:119; Xaa Pos. 3  
Seq#:120; Xaa Pos. 3  
Seq#:122; Xaa Pos. 3  
Seq#:123; Xaa Pos. 3  
Seq#:766; Xaa Pos. 1,5,6,8,9  
Seq#:767; Xaa Pos. 1,3,5,6,7

**VERIFICATION SUMMARY****PATENT APPLICATION: US/10/538,066****DATE: 06/16/2005****TIME: 10:17:15****Input Set : A:\Sequence Listing.txt****Output Set: N:\CRF4\06162005\J538066.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:373 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0  
L:393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0  
L:503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0  
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0  
L:1307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:0  
L:1323 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:0  
L:1405 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:0  
L:1432 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 after pos.:0  
L:1448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119 after pos.:0  
L:1464 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:0  
L:1491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:0  
L:1507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123 after pos.:0  
L:4133 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (362) SEQUENCE:  
L:8209 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (666) SEQUENCE:  
L:8326 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (677) SEQUENCE:  
L:9900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:766 after pos.:0  
L:9935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:767 after pos.:0